

NEW INVENTION GIVES EITHER HOT OR COLD AIR

Turn of Valve Raises or
Lowers Temperature

MAGIC OF MODERN SCIENCE

Plans of Baltimore Refrigerating and
Heating Company as Explained
by One of Officials.

An official of the Baltimore Refrigerating and Heating Company, which has secured a permit to lay its conduits in the streets, stated yesterday that it proposed to go ahead as rapidly as possible with the work. In further explanation of the plans of the company he said: "We have purchased the necessary properties to complete our plants, and the work of equipping them will be prosecuted at once."

"A great deal of interest has been expressed in the company's plans for distributing heat and cold," continued the official. "Contrary to general belief, the refrigerating pipe mains will not be cold, but will be at the same temperature as other mains, such as gas and water. The pipe line carries what might be called a cold potential—that is, means of producing cold or, more exactly speaking, the means of taking up heat."

"The pipe line supplies the means of continually taking away heat from inclosed areas. This is accomplished by means of liquid anhydrous ammonia, which is sent out through a main pipe and connected by branch or service pipes with the customer's refrigerator or other space to be cooled. This liquid is held under pressure in the pipe, so it cannot expand or boil or take up any heat, hence the 'liquid line' as it is called, is at the same temperature as the ground through which it passes."

"At the refrigerator the liquid service pipe is connected to a coil of piping inside of the refrigerator, called the 'expansion coil.' This coil connects at its other end with a second service pipe and second main laid alongside of the liquid line. This is called the 'vapor line.' By the action of the machinery at the central station a low pressure is maintained in the vapor line and the expansion coils connected with it."

"A specially constructed valve allows the liquid to trickle from the liquid line where there is pressure into the expansion coils, where the pressure is about the same as the atmosphere."

"The amount of pipe surface and feed of ammonia is so adjusted that all of the liquid is boiled to a gas in the expansion piping, and all of the refrigerating effect of the liquid is used up in the refrigerator; the gas which leaves the expansion piping by way of the vapor line service pipe has practically no refrigerating power, hence the vapor line is also at or very near the temperature of the ground."

"The refrigerating machine at the central station is continually sucking back the gas and compressing it into condensers, where the heat is squeezed out of it and taken away by cooling water, and it is recondensed to a liquid and again sent out through the liquid line on its cooling mission. It will thus be seen that the cooling methods are exactly the reverse of steam-heating operations."

"In steam heating the liquid is boiled to a gas (steam) at the central station and sent out as a gas to the radiators; here it is condensed to a liquid (water), giving out heat that flows from the radiator through the air of the room and through the walls to the outer cold air. The condensed water may be recycled to steam."

"In the refrigerating pipe line a liquid is sent out to the expansion coils (corresponding to the steam radiators) and is then boiled to a gas by heat which has come from the warm outer air through the walls and air in the refrigerator. This heat is brought back by the gas and thrown into the sewer by means of the cooling water, which takes it away from the condensers. The gas is again condensed to a liquid."

"In order that repairs and extensions may be made on the line and in and around the customer's refrigerators a third main, called the vacuum main, is laid alongside the liquid and vapor mains. This vacuum main has service branches running to every refrigerator. If a repair or an extension is to be made the expansion piping is cut off from the liquid and vapor services by valves and a valve is opened into the vacuum line. The action of a vacuum pump at the central station clears the section of piping cut off of the service mains, saves all the ammonia and allows the piping to be opened and extended or repaired without stoppage of refrigeration at any other point and avoiding all smell of ammonia. The vacuum main is also connected at all manholes, so that repairs can be made on the main line, but so carefully is the main line laid and tested that as a matter of experience repairs are seldom, if ever, necessary."

"In the early days of steam heating a return main was laid to carry back to the central station the condensed water from the radiators of the customers. It was found that distilled water or the water of condensation reduced from a high temperature attacked the iron or steel pipe, rendering it worthless in the course of four or five years. It would not, however, attack cast iron."

"The return line was therefore abandoned, and in its place what is known as an economizing coil is used in each building. This coil is placed in a tin-lined box with a fresh-air inlet and a tin-pipe outlet to a register in the floor above, just the same as in furnace practice. In this way a continual current of warm, fresh air is introduced into the building, and all the available heat that remains in the water of condensation is utilized to supplement the work of radiators, at the same time securing perfect ventilation. Modern methods are used to prevent the leakage caused by expansion and contraction. The experience of a quarter of a century has gradually developed a system of insulation which has practically reached its commercial limit and has reduced the loss of heat by radiation to from one-fourth of 1 per cent to 5 per cent, depending on the amount of steam used through a given length of main, the percentage, of course, decreasing as the amount of steam delivered increases."

PREFERS HIS BUSINESS TO HORSE SHOW RING

Harry Payne Whitney Proves
His Grit and Integrity

NEW YORK, Nov. 24.—Harry Payne Whitney, business man, returned to New York last night. He had missed the horse show, disregarding important telegrams from his friends, from H. B. Durfee, his racing partner, and even from his father, and struck to business in a trip of five weeks, just at the time a young man of his wealth might be expected to choose New York with the capital of the world to select from.

Mr. Whitney returned with Daniel Guggenheim. With them they brought deeds to nearly \$10,000,000 in silver, lead and copper mines which they had purchased in Colorado, Mexico and other points in the West and Southwest.

More than a year ago William C. Whitney announced that he had retired from business and would trust his vast interests to his son, but this is the first time Harry Payne Whitney has engaged actively in the details of the property which he will inherit some day. The party was composed of the men who represent the capital behind the American Smelting and Refining Company and the Guggenheim Exploration Company. They went West to perfect the consolidation of what is known as the "Smelter Trust" for the former concern and to acquire new properties for the latter.

Mr. Guggenheim, in speaking of the trip last night, said:

"Mr. Whitney evinced the greatest interest in the work and seemed to enjoy the most intricate details. He showed himself to be a young man who will take his place in the financial world."

WILL OF SAMUEL S. TAYLOR.

Samuel S. Taylor, by his will, dated October 10 last, filed today for probate in the office of the Register of Wills for the District, leaves his estate to his wife, Adeline Taylor, for life. Upon her death it is directed that the property shall be equally divided among his children, Samuel S. Taylor, Jr., Mrs. Minnie Carter, and Georgiana Taylor. John G. Challice and Leonard Stahler are named as executors of the will.

HALL CAINE RESPECTS THE ALMIGHTY DOLLAR

Manx Dramatic—Novelist
Expounds His Views.

NEW YORK, Nov. 24.—Hall Caine, the Manx dramatic novelist, has at last decided to sail for England and leave his play, "The Eternal City," to its fate. It was announced twice last week that he was ready to leave and last Wednesday and last Saturday were fixed as sailing days for him. Now he says that he will leave on the Majestic next Wednesday.

He was seen this morning at the Plaza Hotel where he expounded his views of the two "Romans" and the American theatergoing public. He was willing to grant that these who contended that the expurgation of Roma's character weakened "The Eternal City" were supporting a perfectly legitimate criticism.

"I think," he added, "that it is one with which Mr. Beerbohm Tree, who is playing in the English production, would sympathize. But I had to consider the American public and its demands."

"I wish to draw a decided distinction between the novelist and the dramatist. The novelist's prime purpose is to amuse. Should I write a novel to please one public, and then change it to meet the popular cry of another, I would be nothing but a literary time-server."

"But in the drama one must consider his manager, his theater, and the company that depends upon the success of the play for salaries; so when those came to me who said that Roma's character must be regenerated for the American public, I naturally listened to them, and when I consider the financial success the American version is meeting, they seem to me to have justified themselves."

STREET REPAIRS NOT FEASIBLE.

Acting on the advice of the Computing Engineer, the District Commissioners will inform the North Capital and Eekington Citizens' Association that the improvement of First Street, between Baltimore and Cincinnati Streets northwest, is not feasible at the present time. The association complained that the surface was full of holes and practically impassable on that account.

MACHINIST FOUND DEAD WITH HEAD CRUSHED IN

Cincinnati Superintendent
Discovered by Brother.

CINCINNATI, Nov. 24.—Edward Sastkamp, assistant superintendent of the Ross-Moyer Machine Tool Company, was found with his head crushed in on the third floor of the plant this morning by his brother. He had been mysteriously murdered and had been missing since Saturday afternoon. His pockets had been rifled.

The police think an employee of the firm is responsible for this murder and that of Joseph Seifert, an old engineer, which happened a few weeks ago, both of which occurred at the same place. Seifert's murder was never solved. Robbery was the object in both cases.

Several fires of incendiary origin have occurred in the plant and the police blame the same man. The police late last night arrested on suspicion Isaac Saunders, a colored porter at the factory.

CONDEMNED MURDERER

SINCLAIR UNREPENTANT

John Sinclair, colored, who last week was convicted of murder and who will soon be sentenced to death upon the gallows, has not yet begun spiritual preparations for his approaching end.

He denies that he believes in the existence of God, but acknowledges that there is a devil.

Sinclair was appealed to some days ago by the Rev. John Roberts, the jail missionary, to begin preparations for death by asking God's forgiveness for his sins. The minister was horrified by the reply, "I can't go your way—I'm going to the devil."

FOUR-YEAR-OLD BOY

OVERCOME BY WHISKY

James Bundy, four years of age, found a bottle of whisky at his home, 1708 Seaton Street, yesterday and drank so much of it that he became unconscious. He was removed to the Emergency Hospital, where, after working over him for some time, the physicians relieved him.

ALLEGED PLOT TO KILL PRESIDENT OF FRANCE

Fight at Italian Wedding
Gives Rise to Report

NEW YORK, Nov. 24.—A report was afloat today that the police had arrested two anarchists who had entered into a plot to murder President Loubet, of France. The men arrested were Dominick Santo, thirty-six years old, who said he lived at 220 Harrison Street, Jersey City, and Tony Menz, twenty-nine years old, who lives at 15 Madison Street in this city.

According to the story the men were made to fight because one of them had betrayed secrets of an alleged anarchistic order.

Investigation showed that the men did not know anything about anarchy, and less about anarchists. The story said that one of the men carried a map of Paris, with certain public buildings marked. What the man did carry was an ordinary guide book such as any tourist intending to visit Paris would purchase. The buildings marked were the places of interest to visitors.

At 6 Roosevelt Street, where a secret meeting was said to have been in progress, when the men came to blows last night, an Italian wedding was being solemnized, and there was nothing secret about it.

The police arrested the men on a charge of disorderly conduct.

An Enjoyable Concert.

The Washington Saengerbund entertained its numerous members and friends last night at the club house with a selected program of vocal and instrumental music. Among the contributors to the program were Master Acia Zitzkala-ze, Mrs. Blanche Mattingly-Rogers, Charles Myers, Mrs. Margaret Nolan-Martin, and Mr. Werres. The entertainment was under the direction of Prof. Henry Xander. On Wednesday evening the Saengerbund will hold its Thanksgiving Eve tankraenzchen.

CASTORIA For Infants and Children.
The Kind You Have Always Bought

PREPARING UNCLE SAM'S FOOD-TESTING KITCHEN

Dr. Wiley Experimenting
With Culinary Apparatus.

Although the twelve young men who have been selected by Dr. W. H. Wiley, chief of the bureau of chemistry, of the Agricultural Department, to partake of Uncle Sam's bounteous fare for the next year in exchange for their lending themselves to certain food experiments, will not begin their dieting for several days, Dr. Wiley was busily engaged today in testing the culinary appointments of the kitchen that has been provided in the basement of the big building.

Every detail of the work is being carefully studied out by Dr. Wiley with the purpose of carrying out to the letter the instructions contained in the last appropriation act, directing that the experiments be undertaken for the purpose of ascertaining whether boric acid and other food preservatives are injurious to health.

Dr. Wiley stated this morning that it would be several months before he could obtain any results from the experiment and that in the meantime it would be only a matter of carefully watching the effect of the dieting upon those who are giving their services to the experiment.

WASHINGTON PEOPLE AT THE NEW YORK HOTEL

Ashland—P. F. Gormley.
Broadway Central—Mrs. Livingston, M. M. Miller, E. Francis, H. A. Kelly.
Commodore—S. L. Apple, Mrs. F. Taylor, Mrs. D. J. Apple, A. H. Cohen.
Criterion—S. Conners, H. J. Mullin.
Grand Union—D. J. Salmon, C. M. Johnston, E. T. Harding, C. Elliot.
Herald Square—C. B. Cheyney, M. Bogart, O. J. Meah, H. M. Kingsley, W. P. Hanson.
Imperial—M. Spina, G. H. Plant, J. Ashford.
Manhattan—Mrs. C. D. Clark, J. P. Parry.
Park Avenue—D. MacLeod, W. Walter, F. Ellis.
Victoria—H. J. Lauck, Miss Lauck, A. Parker.
Waldorf—S. W. Tullock, Count Cassini, Mlle. I. Desplanches, A. Parlow, Mr. and Mrs. G. S. Wainwright, C. W. Dudley.

CATARRH

Often begins with a cold in the head, but it never stops there. The tendency is always from bad to worse. The simple cold becomes a protracted, stubborn one, while the discharge from the nose grows more profuse and offensive. The inflammation extends to the throat and bronchial tubes, causing hoarseness, a tickling sensation and an aggravating cough. The foul matter that is continually dropping back into the throat finds its way into the stomach, resulting in a distressing form of dyspepsia, nausea, and loss of appetite and strength. The catarrhal poisons are absorbed into the blood, and all the membranes of the body become infected, and what was supposed to be purely a local disease has become constitutional, deep seated and chronic.

Sprays, washes, powders, salves and other external remedies give only temporary relief, and the disappointed and disgusted patient finally gives up in despair and declares catarrh incurable.

The only way to get rid of catarrh permanently is to treat it through the blood. The system must be toned up and all impurities removed from the blood, and this S. S. S. does promptly and thoroughly. It expels from the circulation everything of an irritating, poisonous character, allowing the inflamed membranes to heal when the mucous discharges cease, and the damage done to the health is soon repaired. S. S. S. keeps the blood in such a healthy, vigorous condition that cold, damp weather or sudden changes in the temperature are not so apt to bring on catarrhal troubles. S. S. S. is a vegetable medicine unequalled as a blood purifier, and the best of all tonics—just the remedy needed to thoroughly and effectually cure catarrh.

The Swift Specific Co., Atlanta, Ga.

SSS

healthy, vigorous condition that cold, damp weather or sudden changes in the temperature are not so apt to bring on catarrhal troubles. S. S. S. is a vegetable medicine unequalled as a blood purifier, and the best of all tonics—just the remedy needed to thoroughly and effectually cure catarrh.

The Swift Specific Co., Atlanta, Ga.

MEDICAL.

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It is of the utmost importance that just the right man be consulted when one is suffering with Catarrh, Rheumatism, Piles, Disorders of the Brain, Heart, Lungs, Blood or Skin, Nervous Debility, or any other disease.

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Perfect manhood should be prized as the greatest gift of man. Are you suffering from the effects of nature's violations, acute and chronic complaints, impotence or acquired Nervous Debility—are you weak, nervous, broken down, irritable? Do you lack vim, vigor and vitality? Why not have these troubles remedied?

Without pain or loss of time.

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DR. GEO. D. KIRKPATRICK.
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We are known for selling at the lowest prices, but this sale climaxes all previous bargain offerings. Remember, cash is not necessary when buying here.

A complete Dining Room Set.

A large prettily carved Golden Oak Sideboard, 6 high back cane seat chairs, a handsome oak extension table and a handsome round end china closet, \$37.50.

A large fine velvet covered Couch, \$9.50

A pretty tufted oak frame Couch, \$6.50

A good velvet covered oak frame Couch, \$3.75

A very handsome swelled front Dressing Case, with large beveled edge mirror, beautiful gold-en oak finish, \$12.50

A large Metal Bed stock the largest in the city, both in brass and enameled.

A heavy brass trimmed white enameled Bed, \$2.95

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A large Golden Oak Combination Case, large Book Case and Desk combined. With \$15.00, for \$9.95

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